

AMENDMENTS TO THE CLAIMS

This listing will replace all prior versions, and listings, of the claims of the present application:

Listing Of Claims

1 1. (currently amended): A razor, comprising:
2 a handle having a longitudinal axis;
3 E a shaving head carrying at least one blade with at least one cutting edge and defining a
4 transverse axis parallel to said at least one cutting edge;
5 a connector assembly movably coupling said handle to said shaving head; and
6 a biasing element spaced apart and separate from said connector assembly and
7 disposed between said shaving head and said handle;
8 wherein:
9 said connector assembly permits said shaving head to exhibit a first movement toward
10 and away from said handle into and out of a rest position with said shaving head transverse
11 axis maintaining a constant orientation with respect to said handle longitudinal axis;
12 at least a portion of said connector assembly is resiliently yieldable to permit coupling
13 of said shaving head to said handle; and
14 said biasing element biases said shaving head into said rest position against said first
15 movement.

1 2. (previously presented): A razor as in claim 1, wherein said connector assembly
2 further permits a pivoting second movement forward and backward about a pivot axis parallel
3 to said transverse axis into and out of said rest position.

1 3. (previously presented): A razor as in claim 2, wherein said biasing element biases
2 said head into said rest position against said first movement and said second movement.

1 4. (previously presented): A razor as in claim 2, wherein said connector assembly
2 includes at least one insertion element and at least one cutout shaped to receive said at least
3 one insertion element, wherein said cutout has dimensions greater than the dimensions of said
4 at least one insertion element to allow said first movement and said second movement.

1 5. (original): A razor as in claim 4, wherein said at least one insertion element is a
2 pin.

1 6. (original): A razor as in claim 4, wherein said handle, said insertion element, and
2 said biasing element are a single piece.

1 7. (original): A razor as in claim 4, further including a neck piece coupled to said
2 handle, wherein said neck piece includes said at least one insertion element.

1 8. (original): A razor as in claim 7, wherein said neck piece includes said biasing
2 element.

1 9. (original): A razor as in claim 1, wherein said biasing element is at least one leaf
2 spring.

1 10. (withdrawn): A razor as in claim 1, wherein said biasing element is a spring
2 loaded tongue.

1 11. (previously presented): A razor as in claim 1, wherein during the first movement,
2 when said shaving head is moved out of said rest position, said transverse axis is oblique to
3 said longitudinal axis.

1 12. (previously presented): A razor as in claim 1, wherein during the first movement,
2 when said shaving head is out of said rest position, said transverse axis is perpendicular to
3 said longitudinal axis.

1 13. (previously presented): A razor as in claim 1, wherein when said shaving head is
2 out of said rest position, said transverse axis is perpendicular or oblique to said longitudinal
3 axis depending on the degree and location of at least one force applied to said shaving head.

E 1 14. (currently amended): A razor, comprising:
2 a handle having a first end, a spaced second end, and a longitudinal axis extending
3 between said first and second ends;
4 a shaving head carrying at least one blade with at least one cutting edge and defining a
5 transverse axis parallel to said at least one cutting edge;

6 a connector assembly comprising a head-engaging element on said handle and a
7 handle-engaging element on said shaving head movably coupling said handle to said shaving
8 head; and

9 a biasing element biasing said shaving head into a rest position;

10 wherein:

11 said head-engaging element and said handle-engaging element move with
12 respect to each other to permit said shaving head to exhibit a first movement toward and
13 away from said handle;

14 said head-engaging element and said handle-engaging element are shaped and
15 configured to engage with each other to result in coupling without the need for a separate
16 coupling element.

15. (previously presented): A razor as in claim 14, wherein:

1 one of said head-engaging element and said handle-engaging element comprises at
2 least one post with a pin extending therefrom and the other comprises a cutout for receiving
3 said at least one pin; and

4 said cutout has dimensions greater than the dimensions of said pin received therein to
5 allow movement of said shaving head toward and away from said handle and pivoting of said
6 shaving head upward and downward about a pivot axis parallel to said transverse axis.

16. (original): A razor as in claim 15, wherein said biasing element is at least one
2 leaf spring disposed between said posts such that at least one free end of said at least one leaf
3 spring is adjacent said longitudinal axis and at least one fixed end of said leaf spring is
4 adjacent said posts.

17. (withdrawn): A razor as in claim 15, wherein said biasing element is at least two
2 leaf springs and said at least one post is disposed between said leaf springs such that said
3 fixed ends of said leaf springs are adjacent said at least one post and said free ends of said
4 leaf springs are spaced outwardly therefrom.

18. (original): A razor as in claim 15, wherein said at least one post and pin are
2 formed on said handle and said at least one cutout is formed in said shaving head.

19. (original): A razor as in claim 14, wherein said biasing element is at least one
2 leaf spring disposed between said handle and said shaving head and having a free end.

1 20. (original): A razor as in claim 19, wherein said free end of said at least one leaf
2 spring has a cam surface formed thereon.

1 21. (previously presented): A razor as in claim 20, wherein said shaving head further
2 includes a projection extending therefrom, and said cam surface contacts said projection to
3 bias said shaving head into said rest position.

1 22. (original): A razor as in claim 19, wherein said at least one leaf spring includes
2 two leaf springs each having a free end, said free ends of said leaf springs being spaced apart
3 to form a gap therebetween.

1 23. (withdrawn): A razor as in claim 19, wherein said at least one leaf spring
2 includes two leaf springs each having a fixed end and a free end, said fixed ends of said leaf
3 springs extending from a member that is connected to said handle such that said leaf springs
4 and said member form a Y shape.

1 24. (original): A razor as in claim 14, wherein said shaving head is releasably
2 coupled to said handle.

1 25. (currently amended): A razor comprising:
2 a handle defining a longitudinal axis;
3 a razor cartridge carrying at least one blade with at least one cutting edge and defining
4 a transverse axis parallel to said at least one cutting edge, said razor cartridge having a
5 longitudinal axis perpendicular to said transverse axis; and
6 a connector assembly provided between said handle and said razor cartridge to
7 removably couple said razor cartridge to said handle;
8 wherein:
9 said connector assembly includes a cartridge-engaging element on said handle and a
10 handle-engaging element on said razor cartridge, with one of said cartridge-engaging element
11 and said handle-engaging element being insertable into the other to result in coupling of said
12 cartridge-engaging element and said handle-engaging element upon insertion; and
13 said cartridge-engaging element and said handle-engaging element are configured to
14 permit said razor cartridge simultaneously and independently to pivot about said transverse
15 axis in a pitching movement, to move toward and away from said handle with said transverse

16 axis remaining perpendicular to said longitudinal axis of said handle in a cushioning
17 movement, and to pivot about said razor cartridge longitudinal axis in a rolling movement.

1 26. (previously presented): A razor as in claim 25, wherein said razor cartridge
2 further comprises a bottom surface with a camming surface and wherein said razor further
3 comprises a biasing element contacting said camming surface biasing said razor cartridge into
4 a rest position once a force causing any one of said pitching, cushioning, and rolling
5 movements is removed.

1 27. (previously presented): A razor as in claim 26, wherein said biasing element is
2 spaced from said connector assembly.

1 28. (withdrawn): A razor as in claim 26, wherein said biasing element is a spring
2 loaded tongue.

1 29. (previously presented): A razor as in claim 26, wherein one of said cartridge-
2 engaging element and said handle-engaging element is an insertion element and the other of
3 said cartridge-engaging element and said handle-engaging element is at least one cutout
4 shaped to receive said insertion element.

1 30. (previously presented): A razor as in claim 29, wherein said insertion element
2 includes a post and pin extending transversely therefrom shaped for insertion into said cutout.

1 31. (previously presented): A razor as in claim 30, wherein:
2 said post and pin include a first post having a first pin and a second post having a
3 second pin;

4 said at least one cutout includes a first cutout for receiving said first pin and a second
5 cutout for receiving said second pin; and


6 said first and second posts are resiliently movable with respect to each other to
7 facilitate insertion into and removal of said first and second pins from said first and second
8 cutouts, respectively.

1 32. (withdrawn): A razor as in claim 31, further including at least one button coupled
2 to at least one of said first and second posts to move said at least one of said first and second
3 posts upon movement of said button.

1 33. (currently amended): A razor comprising:
2 a handle defining a longitudinal axis;
3 a shaving head carrying at least one blade with at least one cutting edge and defining a
4 transverse axis parallel to said at least one cutting edge and a longitudinal axis perpendicular
5 to said transverse axis; and
6 a connector assembly comprising a head-engaging element formed on said handle and
7 a handle-engaging element formed on said shaving head and movably coupling said shaving
8 handle to said head upon coupling said head-engaging element and said handle-engaging
9 element together;
10 wherein said head-engaging element and said handle-engaging element are:
11 configured for insertion of one into the other to result directly in coupling of said
12 shaving head to said handle; and
13 movable with respect to each other when coupled together to permit said shaving head
14 simultaneously and independently to pivot about said transverse axis in a pitching movement,
15 to move toward and away from said handle with said transverse axis remaining perpendicular
16 to said longitudinal axis of said handle in a cushioning movement, and to pivot about said
17 shaving head longitudinal axis in a rolling movement.

1 34. (previously presented): A razor as in claim 33, wherein said shaving head further
2 comprises a bottom surface with a camming surface and wherein said razor further comprises
3 a biasing element contacting said camming surface biasing said shaving head into a rest
4 position once a force causing any one of said pitching, cushioning, and rolling movements is
5 removed.

1 35. (original): A razor as in claim 34, wherein said biasing element is spaced from
2 said head engaging element and said handle engaging element.

1  36. (canceled).

1 37. (previously presented): A razor as in claim 35, wherein one of said head-
2 engaging element and said handle-engaging element is a post with a pin extending therefrom
3 and the other of said head-engaging element and said handle-engaging element is a cutout
4 having dimensions larger than the dimensions of said pin to allow said pitching, cushioning,
5 and rolling movements.

1 38. (withdrawn): A method of modifying a razor having a shaving head movably
2 coupled to a handle to increase the degree of freedom of movement between the shaving head
3 and the handle, the shaving head carrying at least one blade with at least one cutting edge and
4 having a transverse axis parallel to the at least one cutting edge and a longitudinal axis
5 perpendicular to the transverse axis, the shaving head being movably coupled to the handle
6 for pivoting about the transverse axis by insertion of an insertion element on one of the
7 handle and shaving head into a hole in the other of the handle and shaving head, said method
8 comprising:

9 increasing the size of the hole to form a cutout to increase the mobility of the insertion
10 element therein to permit cushioning movement of the shaving head toward and away from
11 the handle and rolling movement of the shaving head about the transverse axis thereof in
12 addition to the pivoting movement about the transverse axis.

1 39. (withdrawn): A method of modifying a razor as in claim 38, further comprising
2 the step of providing a biasing element in a position to bias the shaving head against any of
3 the pivoting, cushioning, or rolling movements of the shaving head with respect to the
4 handle.

1 40. (withdrawn): A method of movably coupling a handle to a shaving head through
2 a connector assembly, the handle having a longitudinal axis, the shaving head having a
3 bottom surface with a camming surface and carrying at least one blade with at least one
4 cutting edge and defining a transverse axis parallel to the at least one cutting edge, the
5 connector assembly including at least one insertion element located on one of the handle or
6 the shaving head and at least one cutout located on the other of the handle or the shaving head
7 and shaped to receive the at least one insertion element, said method comprising:

8 inserting the at least one insertion element into the at least one cutout such that said
9 biasing element contacts said camming surface, wherein the cutout has dimensions greater
10 than the dimensions of the at least one insertion element to allow the shaving head to exhibit
11 a first movement toward and away from the handle into and out of a rest position, and to
12 allow the shaving head to exhibit a second movement forward and backward about a pivot
13 axis parallel to the transverse axis into and out of said the position.

1 41. (currently amended): A razor, comprising:
2 a handle having a longitudinal axis;

3 a shaving head carrying at least one blade with at least one cutting edge and defining a
4 transverse axis parallel to said at least one cutting edge;

5 a connector assembly movably coupling said handle to said shaving head; and
6 a biasing element spaced from said connector assembly and disposed between said
7 shaving head and said handle, said biasing element biasing said shaving head into a rest
8 position;

9 wherein:

10 said connector assembly permits said shaving head to exhibit a first movement toward
11 and away from said handle into and out of said rest position and a second movement forward
12 and backward about a pivot axis parallel to said transverse axis into and out of said rest
13 position;

14 said connector assembly includes at least one insertion element formed on one of said
15 shaving head and said handle, and at least one cutout shaped to receive said at least one
16 insertion element[[,]];

17 said cutout ~~having~~ has dimensions greater than the dimensions of said at least one
18 insertion element to allow said first movement and said second movement; and

19 said insertion element is shaped to be retained in said cutout without the provision of
20 an additional coupling element.

E1 concluded